K. L. Maheshware, M.Sc, Assoc, I.A.R.I.

### The Journal

of

## The Indian Botanical Society

Vol. XXX-1951-52





#### **EDITORIAL BOARD**

A. C. Joshi, Chief Editor
Govt. Training College for Teachers, Jullundar, Punjah (1.)

P. Parija ·
Benares Hindu University

B. P. Pal Indian Agricultural Research Institute, New Delhi

P. Maheshwari
Delhi University

R. L. Nirula Vidarbha Mahayidyalaya, Amrayati

R. Misra
Saugor University

T. S. Sadasivan

Madras University

T. S. Mahabale, Business Manager Bombay

Published by the Indian Botanical Society

### The Journal

# The Indian Sotanical Society

IBRI XXX JOV



OTRACIO SATURNESS

A STATE OF THE PARTY OF THE PARTY OF

- Carlotte and Carlotte

The second second

I will a state of the state of

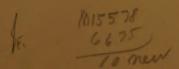
The Street and Street St.

entire trace of mater or of patential

#### CONTENTS

Volume	20	1021	MI	1 4
v munic	.711	1931.	NOS.	-4

Call and Cal	PAGE
Wheat breeding investigations at the Indian Agricultural Research InstituteB. P. Pal	1
Wilt disease of Acacia melanoxylon R. Br, G. S. Verma	14
Studies on foliar sclereids—A preliminary surveyT. Ananda Rao	28
Pollen grain sizes in OryzaS. Sampath and K. Ramanathan	40
Pollen analysis in <i>Mangifera</i> in relation to fruit-set and taxonomy	49
An interesting Indian marine diatom, Radiodiscus hispidus (Grun.)  Mills	56
Studies in the embryology of some VerbenaceæNiranjan Pal	59
The genus Aegopodium Linn. from India	75
A note on the anatomy of the leaf of the simple-leaved mutant in gram (Cicer arietinum Linn.)R. H. Richharia and R. P. Roy	80
Studies in Nitrophily—II. Nitrophilous plants of BombayF. R. Bharucha and P. J. Dubash	83
Staining hairs in Tragia cannabina L.f	88
The somatic chromosomes of Nicandra	.92
Studies in Cæsalpiniaceæ—II. Development of the endosperm and embryo in Cassia occidentalis LJ. V. Pantulu	95
Embryological studies in the Lecuminosæ—II. A contribution to the embryology of <i>Mimosa hamata</i> V. R. Dnyansagar	100
Effect of various nitrogenous compounds on the growth of Alternaria tenuis Auct. Sensu WiltshireJ. P. Srivastava	108
Fossil fruits of <i>Trapa</i> and remains of other fresh-water plants from the Pleistocene of Kashmir	113
Contributions to the embryology of Sterculiaceæ—III. Melochia corchorifolia L	122
Some tertiary leaves and fruits of the Guttiferæ from Rajasthan R. N. Lakhanpal and M. N. Bose	132



	PAGE
The ferns of Pahlgam, Kashmir	137
Walkomiella indica, a new conifer from the Lower Gondwanas of India	143
A comparison of the mode of action of certain new chloronitro- benzene preparations with that of standard fungicides	
R. Y. Roy	148
Indian Botanical Society Excursion, 1951	181
Review	192